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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,300	03/28/2005	Hans-Helmut Bechtel	DE 020089	6524

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

WALFORD, NATALIE K

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 08/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/510,300

Applicant(s)

BECHTEL ET AL.

Examiner

Natalie K. Walford

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 5/05 and 10/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

Claim 5 is objected to because of the following informalities:

Claim 5 recites the limitation "the density of the powder layer" in the first and second lines of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the powder material" in the second line of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner notes that for examination purposes, the powder material will be understood as material provided within the powder layer. Also, it will be understood that the powder layer has a density.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Shin (WO 01/39239).

Regarding claim 1, Shin discloses a plasma picture screen in figures 2 and 4 provided with a front plate (items 1, 9, and 4) which comprises a transparent plate (item 1) on which a dielectric layer (item 9) and a protective layer (item 4) are provided, with a carrier plate (item 8)) provided with a phosphor layer (item 6), with a ribbed structure (item 3) subdividing the space between the front plate and the carrier plate into plasma cells filled with a gas (page 10, lines 17-21), with one or several electrode arrays (items 2 and 2') on the front plate and the carrier plate for generating corona discharges in the plasma cells, and with a powder layer (item 10) between the electrode arrays on the front plate and the electrode arrays on the carrier plate (specifically FIG. 2C).

Regarding claim 2, Shin discloses a plasma picture screen as claimed in claim 1, characterized in that the powder layer is provided on the protective layer (FIG. 2C, items 4 and 10).

Regarding claim 3, Shin discloses a plasma picture screen as claimed in claim 2, characterized in that the powder layer is provided in strip-shaped sections on the protective layer (FIG. 2C, items 4 and 9).

Regarding claim 4, Shin discloses a plasma picture screen as claimed in claim 3, characterized in that the strip-shaped sections of the powder layer are provided such that they each lie opposite the intervening space between pairs of respective discharge electrodes (FIG. 2C, items 2 and 10).

Regarding claim 6, Shin discloses a plasma picture screen as claimed in claim 1, characterized in that the powder layer comprises a material chosen from the group of dielectric materials and phosphors (page 11, lines 1-6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shin (WO 01/39239) in view of Takagi et al. (JP 2000-113824).

Regarding claim 5, Shin discloses a plasma picture screen as claimed in claim 1, but does not expressly disclose that characterized in that the density of the powder layer is $\leq 60\%$ of the density of the powder material, as claimed by Applicant. Shin discloses certain materials for the powder layer (page 11, lines 1-6), but not the densities. Takagi is cited to show a plasma display panel with a fluorescent powder that has a consistency between 0.3 and 0.6 (paragraph 6) and can be made from fluorescent powders (paragraph 11). Takagi teaches that there are few defects and a layer formed at this ratio has high luminescence brightness and high display quality (paragraph 8).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shin's device to include the density of the powder layer is \leq

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60% of the density of the powder material as suggested by Takagi for having a high luminescence brightness and high display quality.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Uchitoi (JP 2000-133148) is cited to show a plasma display panel.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie K. Walford whose telephone number is (571)-272-6012. The examiner can normally be reached on Monday-Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

nkW

[Handwritten signature]
8/5/06

S. Roy
8/7/06
Sikha Roy
AU 2879